WHAT IS CLAIMED:

1. A device for impregnating web with an impregnating agent, comprising:

a coating device structured and arranged to apply the impregnating agent to the web; and

a wide nip calender located, with respect to a web travel direction, before said coating device, said wide nip calender comprising a circulating jacket and a back pressure element arranged to form a wide nip.

- 2. The device in accordance with claim 1, wherein the impregnating agent comprises a starch solution or other coating agents commonly used in paper upgrading.
- 3. The device in accordance with claim 2, wherein the starch solution comprises a starch size.
- 4. The device in accordance with claim 2, wherein the web comprises one of a paper or cardboard web.
- 5. The device in accordance with claim 1, wherein the impregnating agent is applied to a web having a basis weight over 40 g/m².
- 6. The device in accordance with claim 1, wherein, between said wide nip and said coating device, no other web processing devices are provided.
- 7. The device in accordance with claim 6, wherein at least one guide device is arranged between said wide nip and said coating device.
- 8. The device in accordance with claim 1, wherein said wide nip calender further comprises a heating device.
- 9. The device in accordance with claim 8, wherein said heating device is formed by said back pressure element.
- 10. The device in accordance with claim 8, wherein said heating device comprises a surface structured to guide the web through said wide nip, and said surface having a temperature adjustable to at least 200°C.

- 11. The device in accordance with claim 1, wherein said coating device comprises a film press.
- 12. The device in accordance with claim 1, further comprising a drying area located downstream of said coating device.
- 13. The device in accordance with claim 12, wherein said wide nip is heated to a temperature higher than a temperature in said drying area.
- 14. The device in accordance with claim 1, wherein said wide nip is adjustably heated to at least a plasticizing temperature of web fibers of the web.
- 15. The device in accordance with claim 1, further comprising a reeling device arranged downstream of said coating device, wherein no glazing device is arranged between said coating device and said reeling device.
- 16. A process for impregnating web with an impregnating agent, comprising:

applying the impregnating agent to the web;

before the applying of the impregnating agent, pressing the web in a wide nip formed between a circulating jacket and a back pressure element.

- 17. The process in accordance with claim 16, wherein the impregnating agent comprises a starch solution or other coating agents commonly used in paper upgrading.
- 18. The process in accordance with claim 17, wherein the starch solution comprises a starch size.
- 19. The process in accordance with claim 17, wherein the web comprises one of a paper or cardboard web.
- 20. The process in accordance with claim 16, wherein the impregnating agent is applied to a web having a basis weight over 40 g/m².
- 21. The process in accordance with claim 16, further comprising pressing the impregnating agent into the web at a location downstream of the wide nip.

- 22. The process in accordance with claim 21, wherein the impregnating agent is pressed into the web by an application device for the impregnating agent.
- 23. The process in accordance with claim 16, further comprising heating the web in the wide nip.
- 24. The process in accordance with claim 23, wherein the web is heated in the wide nip to a temperature sufficient to plasticize web fibers of the web.
- 25. The process in accordance with claim 16, wherein the impregnating agent is applied in a contour coating.
- 26. A process of impregnating a web with an impregnating agent, comprising:

pressing the web in a wide nip; and

drawing impregnating agent into the web, downstream of the wide nip relative to a web travel direction, via capillary action of the web.

- 27. The process in accordance with claim 26, further comprising pressing the impregnating agent into the web downstream of the wide nip.
- 28. The process in accordance with claim 26, further comprising plasticizing web fibers of the web in the wide nip.
- 29. The process in accordance with claim 26, further comprising heating the web in the wide nip at a temperature greater than in a dryer section located downstream of the wide nip.
- 30. The process in accordance with claim 26, wherein the web is pressed in the wide nip to produce a uniform web density.
- 31. The process in accordance with claim 26, wherein the impregnating agent is applied to a web having a basis weight over 40 g/m^2 .
- 32. The process in accordance with claim 31, wherein the impregnating agent is applied to a web having a basis weight over 90 g/m².